

ABSTRACT OF INVENTION

A battery-powered impact wire insertion tool that employs an electric motor to implement the impacting function. The electric motor is provided with suitable gearing that reduces its speed but increases its torque. An activator mechanism is employed to convert multiple revolutions of the motor shaft into a stored compressive force that after a predetermined number of shaft revolutions is triggered to release the compressive force to drive a hammer against an insertion blade mounted in the tool. The activator mechanism comprises axially-aligned cylindrical end cams with generally complementary surfaces that upon rotation of a driven cam axially extends a follower cam compressing a power compression spring, and upon encountering a cam lobe the driven and follower cams abruptly come together releasing the spring delivering the desired impact to the blade.

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